

FORM PTO-1449

LIST OF REFERENCES CITED BY APPLICANT

ATTY. DOCKET NO.

UMJ-104-B

SERIAL NO.

09/869,623

APPLICANT

Ralph T. Yang and Nick D. Hutson

FILING DATE

June 28, 2001

GROUP

Unknown

U. S. PATENT DOCUMENT

EXAMINER INITIALS		PATENT NO.	ISSUE DATE	PATENTEE	CLASS	SUBCLASS	FILING DATE
CAI	AA	5,932,509	Aug. 3, 1999	Balse et al.	502	65	June 18, 1996
	AB	5,554,208	Sept. 10, 1996	Mullhaupt et al.	95	96	Aug. 7, 1995
	AC	5,551,257	Sept. 3, 1996	Jain	62	644	Oct. 1, 1992
	AD	5,488,020	Jan. 30, 1996	Diesen et al.	502	60	Feb. 23, 1994
	AE	5,470,378	Nov. 28, 1995	Kandybin et al.	95	100	Dec. 27, 1993
	AF	5,417,957	May 23, 1995	Coe et al.	423	700	Sept. 17, 1993
	AG	5,290,732	March 1, 1994	Kumar et al.	437	183	March 1, 1994
	AH	5,268,023	Dec. 7, 1993	Kirner	95	103	Oct. 5, 1992
	AI	5,074,892	Dec. 24, 1991	Leavitt	55	25	May 30, 1990
	AJ	4,859,217	Aug. 22, 1989	Chao	55	68	June 30, 1987
	AK	4,557,736	Dec. 10, 1985	Sircar et al.	55	62	Oct. 29, 1984

FOREIGN PATENT OR PUBLISHED PATENT APPLICATION

		DOCUMENT NO.	PUBLICATION DATE	COUNTRY OR PATENT OFFICE	CLASS	SUBCLASS	TRANSLATION
CAI	✓ AL	EP 0 893 157 A1	Jan. 27, 1999	Europe	B01j20	18	
	✓ AM	GB 2 302 824 A	May 2, 1997	United Kingdom	B01j20	18	
	✓ AN	GB 937,750	Sept. 25, 1963	United Kingdom			
	✓ AO	JP 59-64510	1984	Japanese			
	✓ AP	JP 10-95612	1998	Japanese			

OTHER REFERENCES (including Author, Title, Date, Pertinent Pages, etc.)

CAI	AR	International Search Report dated March 17, 2000 for PCT/US 99/29666
CAI	AS	"Olefin/Paraffin Separations by Adsorption: π -Complexation vs. Kinetic Separation" Salil U. Rege, Joel Padin, and Ralph T. Yang, AIChE Journal, Vol. 44., No. 4, pp: 799-809, April 1998.
CAI	AT	"Ab Initio Molecular Orbital Study of Adsorption of Oxygen, Nitrogen, and Ethylene on Silver - Zeolite and Silver Halides," N. Chen and R. T. Yang, Ind. Eng. Chem. Res., 35, pp. 4020-4027, 1996

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Chen

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PATENT & TRADEMARK OFFICE

U. S. PATENT DOCUMENT

EXAMINER INITIALS		PATENT NO.	ISSUE DATE	PATENTEE	CLASS	SUBCLASS	FILING DATE
CAI	BA	4,481,018	Nov. 6, 1984	Coe et al.	55	68	Nov. 15, 1982
	BB	4,217,855	Oct. 23, 1974	Takagi	118	719	PCT
	BC	4,147,573	April 3, 1979	Morimoto	148	175	March 15, 1978
	BD	4,120,700	Oct. 17, 1978	Morimoto	148	1.5	Dec. 28, 1976
	BE	4,019,880	April 26, 1977	Rabo et al.	55	68	Aug. 10, 1976
	BF	3,992,471	Nov. 16, 1976	Priegnitz	260	681.5R	Oct. 9, 1975
	BG	3,626,020	Dec. 7, 1971	Neuzil	260	674	March 12, 1969
	BH	3,130,007	April 21, 1964	Breck	23	113	May 12, 1961
	BI	2,882,244	April 14, 1959	Milton	252	455	Dec. 24, 1953
	BJ	2,882,243	April 14, 1959	Milton	252	455	Dec. 24, 1953
	BK	5,174,979	Dec. 29, 1992	Chao et al.	423	715	Oct. 6, 1989

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		DOCUMENT NO.	PUBLICATION DATE	COUNTRY OR PATENT OFFICE	CLASS	SUBCLASS	TRANSLATION
CAI	✓ BL	JP-10-128106	1998	Japanese			
	BM						
	BN						
	BO						
	BP						

OTHER REFERENCES (including Author, Title, Date, Pertinent Pages, etc.)

CAI	BR	✓	"New Sorbents for Olefin/Paraffin Separations by Adsorption via π -Complexation" R. T. Yang and E. S. Kikkinides, AIChE Journal, Vol. 41, No. 3, pages 509-517; March 1995
	BS	✓	"Gas Separation and Purification by Polymeric Adsorbents: Flue Gas Desulfurization and SO ₂ Recovery with Styrenic Polymers," E. S. Kikkinides and R. T. Yang, Ind. Eng. Chem. Res., 32, pages 2365-2372, 1993
	BT	✓	"Modifications of Resin-Type Adsorbents for Ethane/Ethylene Separation", Zhongbiao Wu, Sang-Sup Han, Soon-Haeng Cho, Jong-Nam Kim, Kuck-Tack Chue, and Ralph T. Yang, Ind. Eng. Chem. Res. 36, pages 2749-2756, 1997

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Chuan J. Chen

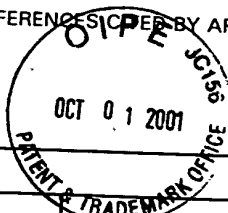
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EXAMINER INITIALS	PATENT NO.	ISSUE DATE	PATENTEE	CLASS	SUBCLASS	FILING DATE
CA1	CA 5,258,058	Nov. 2, 1993	Coe et al.	95	95	Oct. 5, 1992
↓	CB 5,464,467	Nov. 7, 1995	Fitch et al.	95	98	Aug. 8, 1994
	CC 5,413,625	May 9, 1995	Chao et al.	95	103	Dec. 17, 1992
	CD					
	CE					
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	CL					
	CM					
	CN					
	CO					
	CP					

OTHER REFERENCES (including Author, Title, Date, Pertinent Pages, etc.)

CA1	CR	✓	"Spontaneous Monolayer Dispersion of Oxides and Salts onto Surfaces of Supports: Applications to Heterogeneous Catalysis," You-Chang Xie and You-Qi Tang, Advances in Catalysis, Vol. 37, Page 1-43, 1990
	CS		
	CT		

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